



# Air Quality in Haringey

Transport Forum

31<sup>st</sup> January 2017

Penny Wilson

# What are we doing?

- Deliver 10 seminars to various audiences
  - Planners
  - Transport
  - Public health
  - Community groups
  - Public
- Evaluation report
- Draft update to the Air Quality Action Plan

# Why?

- Air quality in parts of Haringey is poor
- **Disseminate information** about air quality to relevant groups;
- Highlight how and where air quality issues should be taken into account in **decision making**;
- Discuss **existing measures** to improve air quality;
- Identify **further measures** to improve air quality and avoid conflicts with other policy areas;
- **Review Air Quality Action Plan**



# Introduction to Air Quality in Haringey

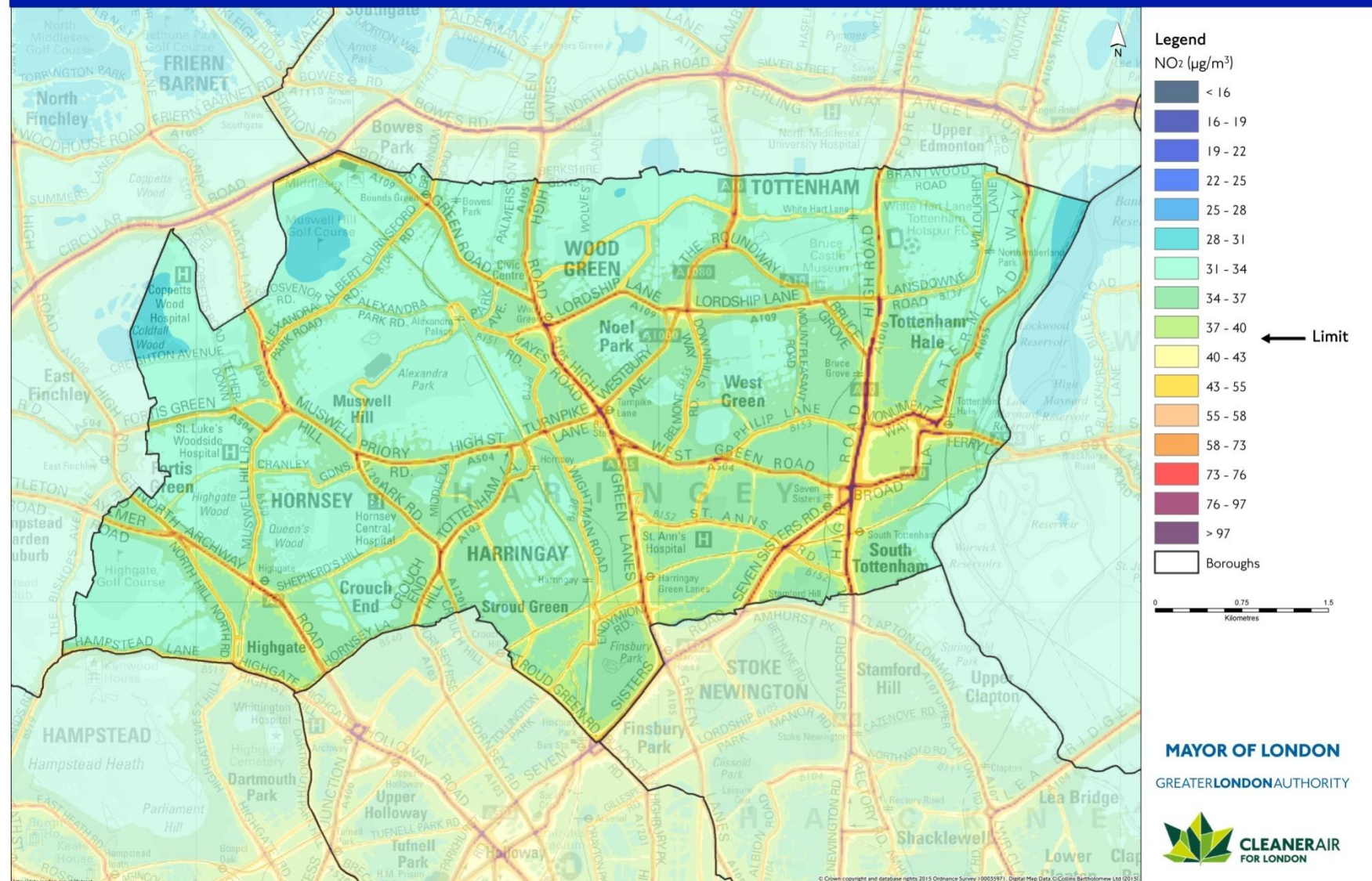
# Air Quality in Haringey

- Whole borough is an AQMA for both NO<sub>2</sub> and PM<sub>10</sub>
- Does NOT mean that the objectives are breached everywhere in the borough
- Annual mean NO<sub>2</sub> objective exceeded at a large number of roadside locations
- 10% population of Haringey in area above annual NO<sub>2</sub> objective
- 1-hour NO<sub>2</sub> objective is also breached at some very busy roadsides
- 24-hour PM<sub>10</sub> objective breached at small number extremely busy junctions
- Annual mean PM<sub>10</sub> objective achieved

# Annual Mean NO<sub>2</sub>, 2013

London Borough of Haringey  
Annual Mean NO<sub>2</sub> concentrations 2013

LAEI 2013

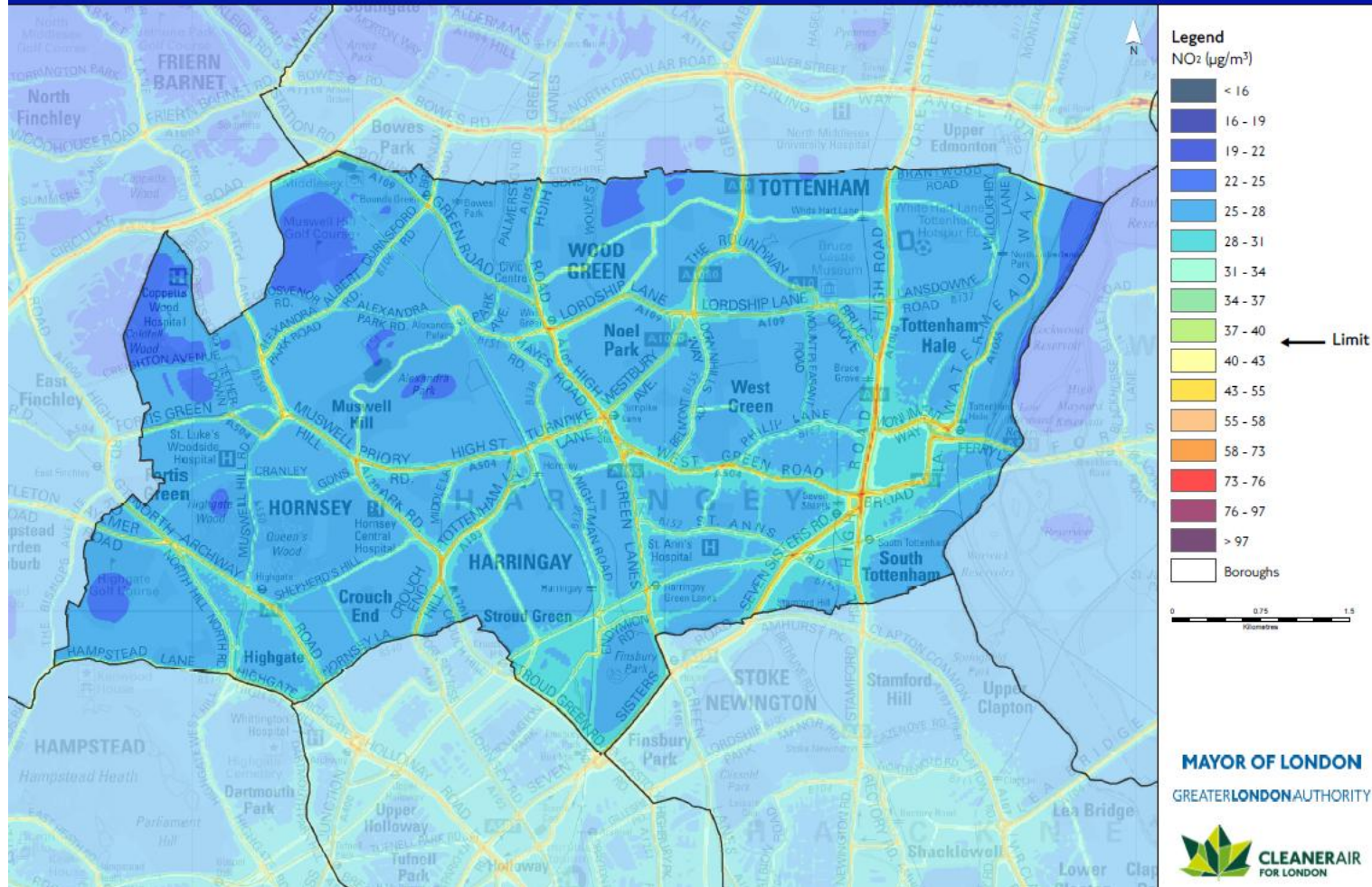




# Annual Mean NO<sub>2</sub>, 2020

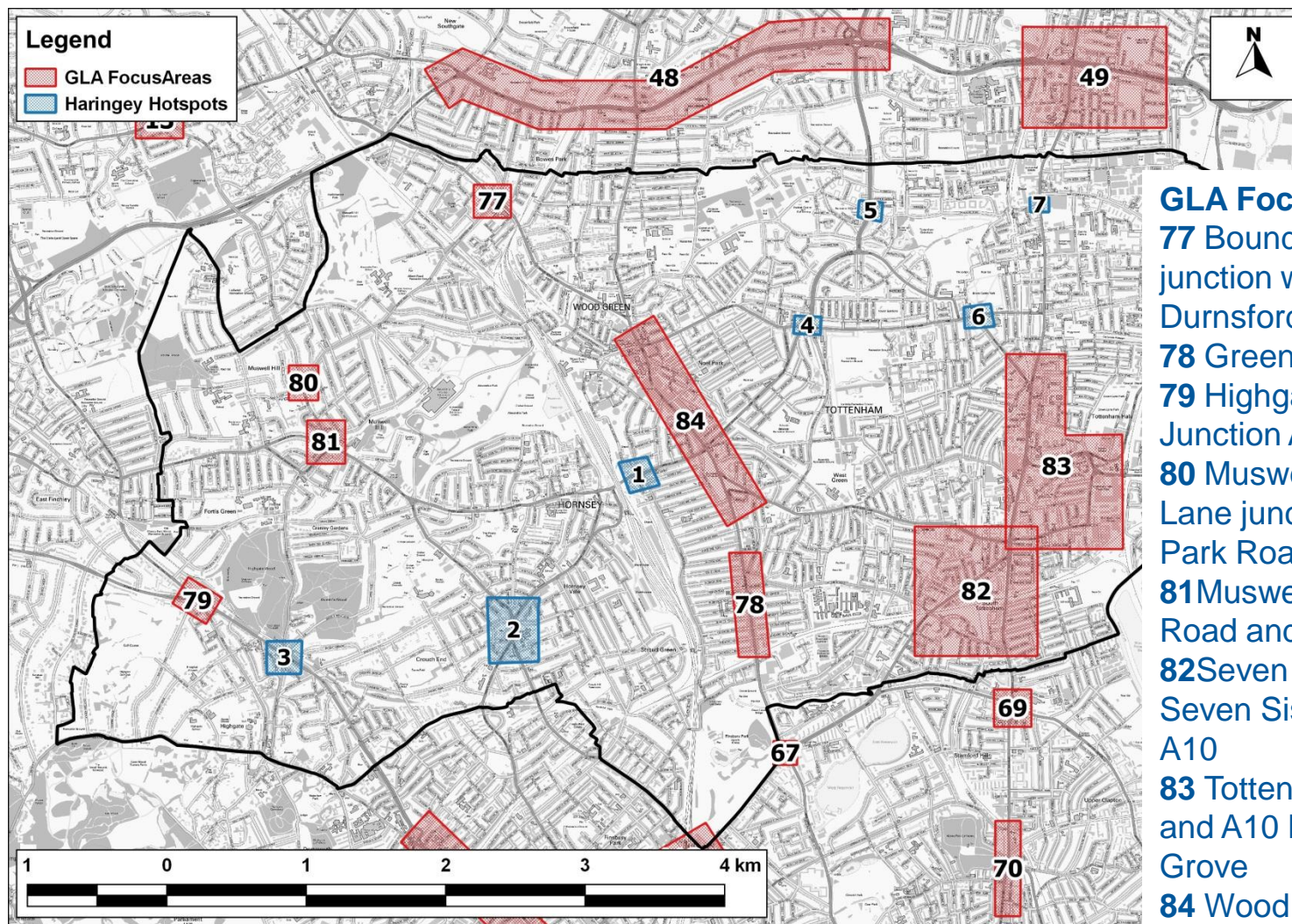
London Borough of Haringey  
Annual Mean NO<sub>2</sub> concentrations 2020

LAEI 2013





# Focus Areas and Hotspots



## GLA Focus Areas

- 77** Bounds Green A109 junction with Durnsford/Brownlow Road
- 78** Green Lanes Town Centre
- 79** Highgate A1 Archway Junction Alymer Road
- 80** Muswell Hill Colney Hatch Lane junction with Alexandra Park Road
- 81** Muswell Hill Fortis Green Road and Muswell Hill
- 82** Seven Sisters junction Seven Sisters Rd/High Road A10
- 83** Tottenham Hale Gyratory and A10 High Road to Bruce Grove
- 84** Wood Green High Road and Turnpike Lane

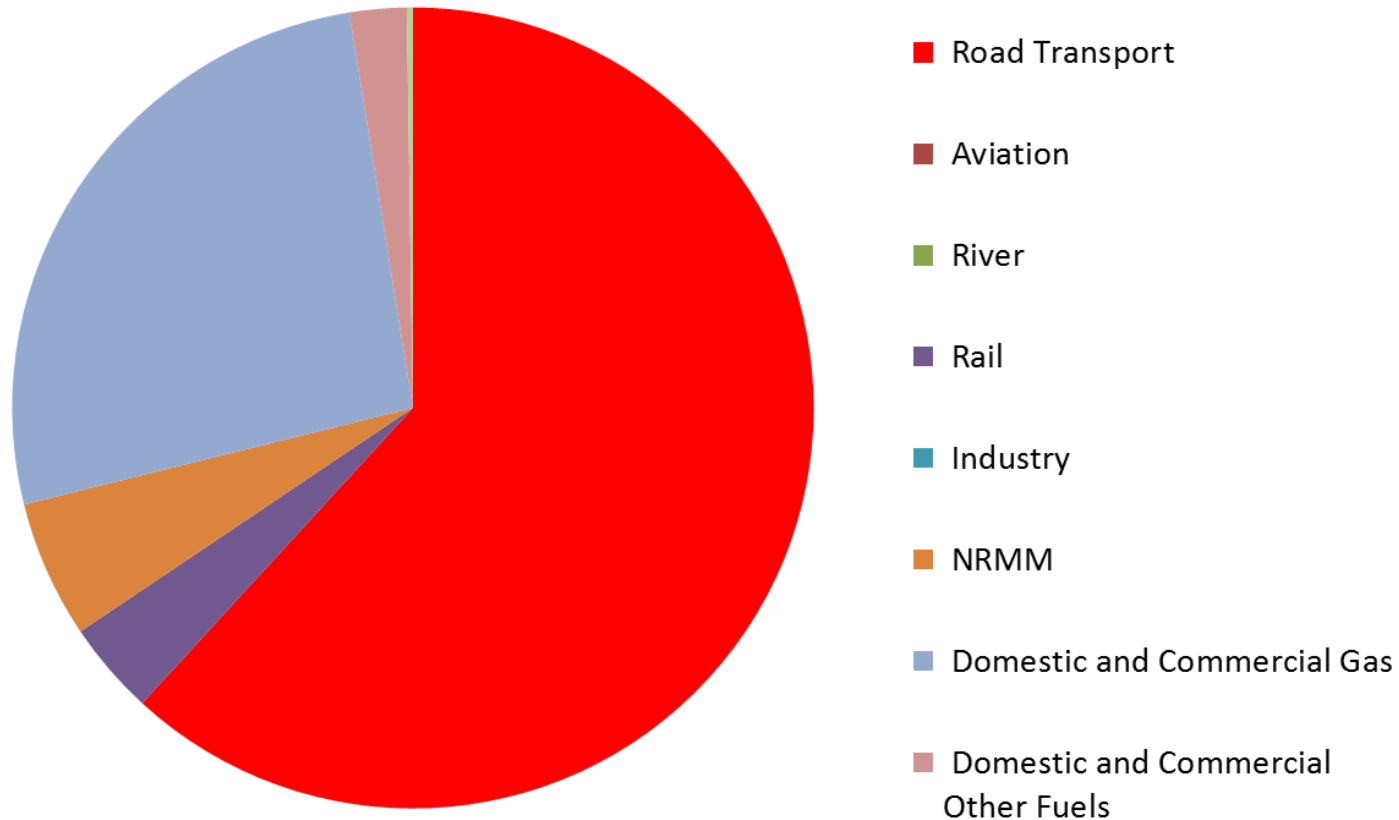


## Green Lanes



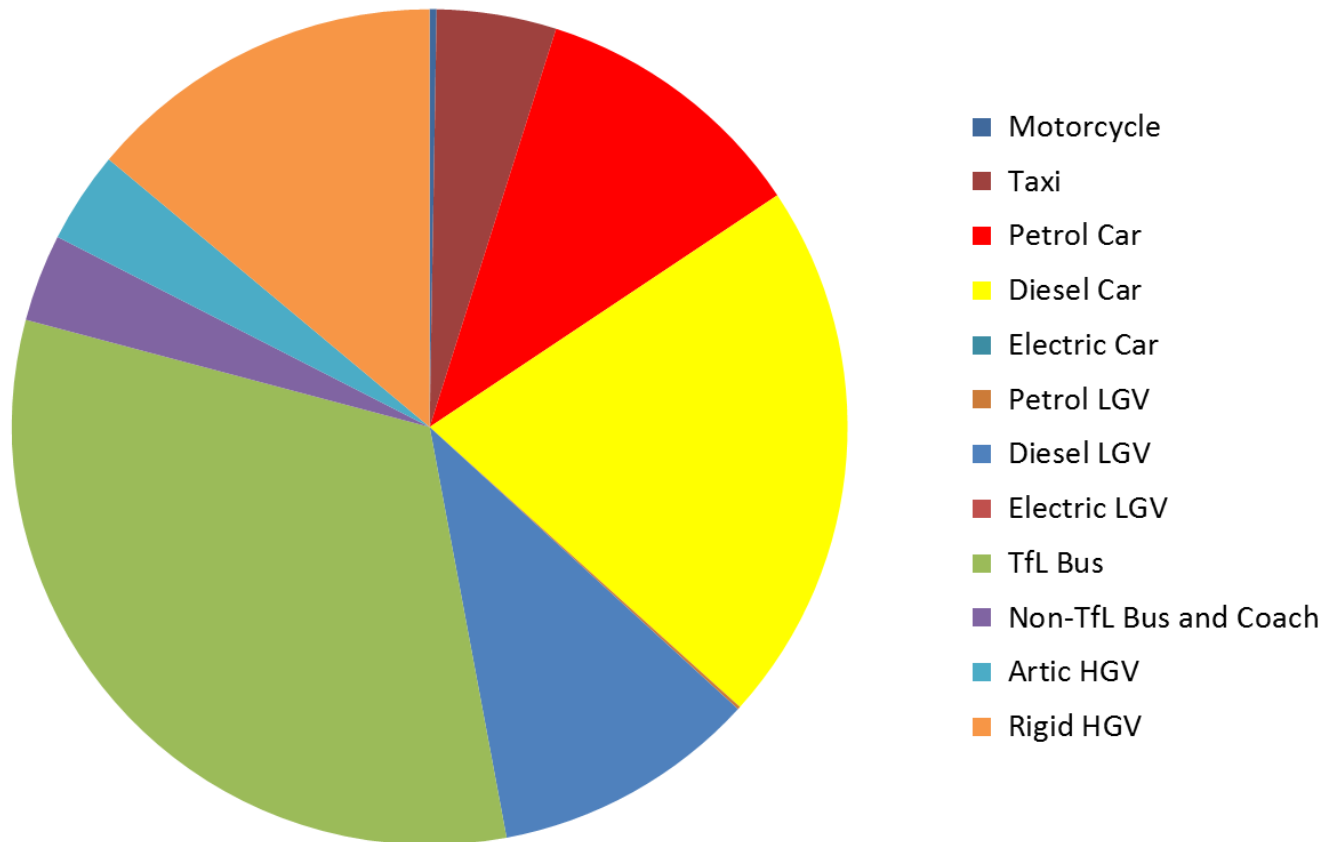
# Sources of NOx

**NOx Emissions Sources in Haringey**



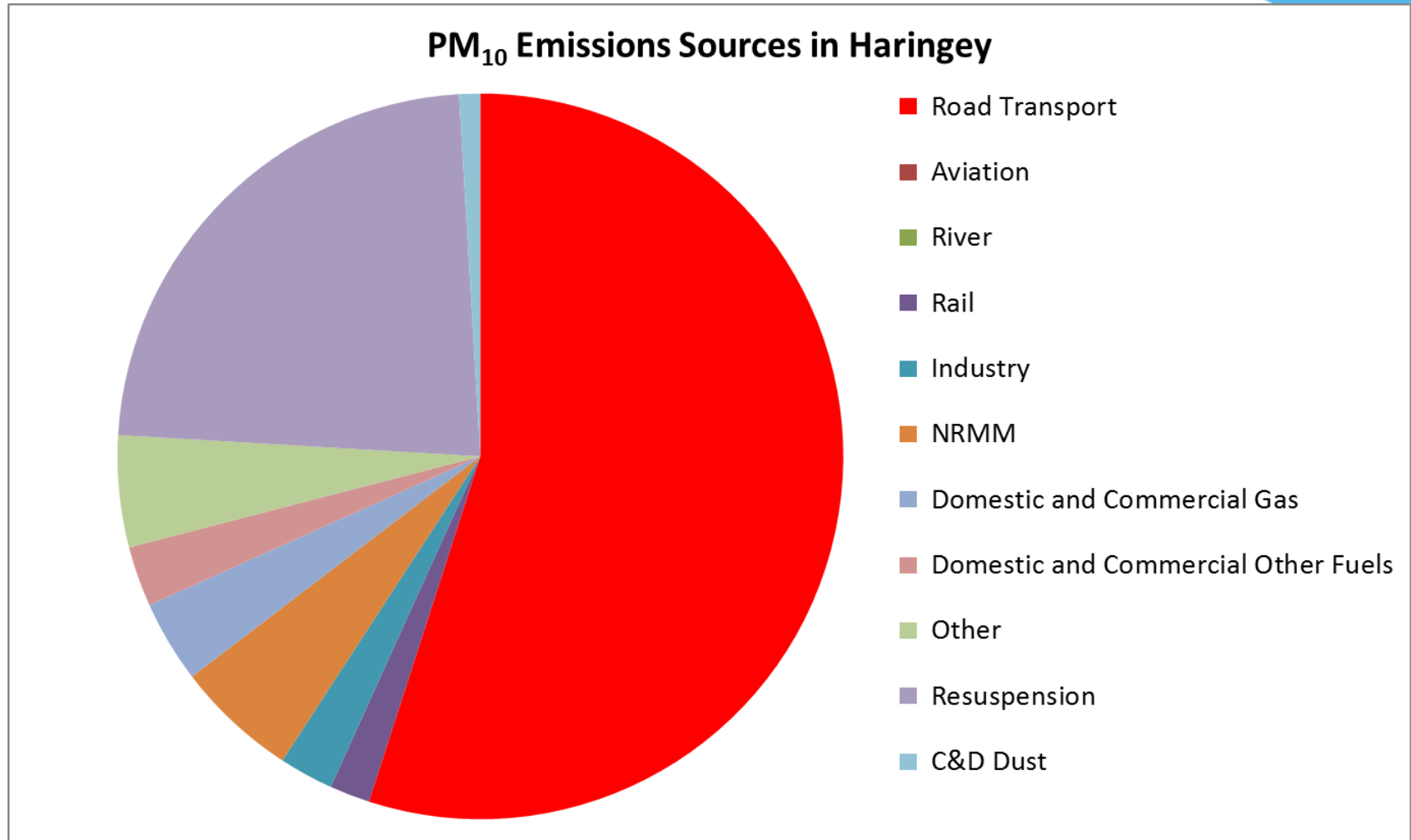
# Sources of Vehicle NOx

NOx Emissions by Vehicle Class





# Sources of PM<sub>10</sub>



# Summary of AQ in Haringey

- Annual mean nitrogen dioxide objective is being exceeded close to some very busy roads/junctions – ‘hotspots’
- 24-hour  $PM_{10}$  and 1-hour  $NO_2$  objectives may also be exceeded at a small number of these locations
- Road traffic is the dominant source of emissions
- Diesel vehicles are the dominant source of traffic  $NO_x$  and PM
- Heating plant are also a significant source of  $NO_x$
- Resuspended road dust is a significant source of PM
- Concentrations are expected to reduce in the future due to reductions in emissions from vehicles

# Relevant issues – Road Sources

- Exceedences where **properties close to the road**
- The objective is only exceeded if there is **relevant exposure**, annual mean = residential properties or hourly mean = where people spend more than an hour
- Concentrations expected to **reduce in the future** (uncertainty about how much)
- Significant **drop off in concentrations away from road** and with height
- ‘**Canyon-effect**’ reduces dispersion and leads to high concentrations
- **Congestion** increases emissions
- **HGVs/ Buses** – greater emissions per vehicle
- **Hills** can increase emissions





# The Mayor's Plans to Improve Air Quality

# LEZ and Congestion Charge

- Low Emission Zone (LEZ)
  - London-wide,
  - heavy vehicles must meet PM standard or pay daily charge
- Congestion Charge
  - congestion charge zone,
  - daily charge for all but EV/some hybrids

# Ultra Low Emission Zone (ULEZ)

- Agreed by former Mayor
  - Due to start 2020
  - congestion charge area
  - ALL vehicles must meet specified standards or pay daily charge (petrol Euro 4/IV, diesel Euro 6/VI, motorcycle Euro 3)
- New Mayor's proposed changes
  - Bring forward to 2019
  - Extend to whole of London for heavy vehicles (Euro VI)
  - Extend to inside North/South circular for ALL vehicles



# T-Charge

- Emissions Surcharge (ES), (also known as the T-Charge)
- Stepping stone to full ULEZ
- existing CC area
- ALL vehicles must be Euro 4/IV or pay an **extra** £11.50

# GLA Buses

- Purchase only hybrid or zero emission by 2018
- All double deck in central London Euro VI hybrid by 2019
- 3,000 buses outside central London retrofitted by 2020
- 12 Low Emission Bus Corridors
  - Haringey - High Road to Green Lanes
  - All buses either hybrid or Euro VI
  - Bus priority schemes to minimise emissions and improve journey times
  - Benefit some Focus Areas

# Vision for Healthy Streets

- summarises existing initiatives
- new buildings 'air quality positive'
- Requires Councils to:
  - use public health powers to provide information,
  - 'everything they can to reduce emissions'.
- urges Central Government to:
  - new Clean Air Act (including local powers to tackle sources),
  - reform Vehicle Excise Duty,
  - diesel scrappage,
  - retain AQ standards





# Haringey's Actions to Improve Air Quality

# Haringey AQAP

- Current AQAP 2010 - 2018
- Review due in 2017
- Start of review process
- Measures **within Haringey Council control**
- Signed off by Head of Transport and Director of Public Health
- Focus on hotspots

# Traffic and Transport Projects

- Cycling
- Walking
- Smarter Travel
- Improvements to public transport and infrastructure
- Promotion of sustainable transport modes

# Air Quality Projects

- Funded by Mayor's Air Quality Fund
  - AQ Apprentice – working on smarter travel in schools
  - The AQ seminars to Council service areas, Councillors and residents
  - Green walls on schools
  - Business engagement
  - Engagement – community groups, GP surgeries, pharmacies, vulnerable groups
  - Shared enforcement officer – construction site emissions/NRMM

# Green Lanes Transport Study

- Started March 2016
- Review of traffic arrangements
- >1,000 responses to consultation – main concern traffic
- Air quality – number 10 on list of issues identified by consultees
- Looking at short list of options
- Air quality impacts of any options will need to be considered



# Neighbourhood of the Future – Wood Green

- Announced January 2017
- TfL and Haringey funded
- Part of UK Go Ultra Low City programme
- Aimed at tackling 'London's air quality emergency'
- Testbed for innovative technology
- Focus on Ultra Low Emission Vehicles (ULEV)
- Rapid charging taxi rank
- Clean energy charging schemes
- Business engagement to encourage ULEV use

# AQAP Review

- List of 38 measures provided by GLA as a starting point
- Can be added to...
- For each measure
  - The **responsible** individual and departments/ organisations who will deliver this action;
  - Estimated **cost** to the council;
  - Expected benefit in terms of **emissions and concentration reduction**;
  - The **timescale** for implementation; and
  - How progress will be monitored



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